

CIP Plan Review Checklist

PROJECT NAME :

DATE REVIEWED :

GENERAL NOTES

- _____ CIP most recent general Construction Notes
- _____ All construction within LOC or in the ROW or within an easement - verify easements with acquisition specialist
- _____ Attach all easement agmt's to Technical Specifications
- _____ Sequence Of Construction List, Include: video of entire project limits - submit and obtain approval from DE, installation of erosion controls, fence along entire LOC
- _____ Silt fence (or fencing necessary to turn cattle, if applicable) called out along entire LOC (to contain contractor's work area)

EROSION & SEDIMENTATION CONTROLS

- _____ Tree protection marked out
- _____ Stabilized construction entrance detail
- _____ Silt fence detail (Note: Accumulated silt shall be removed when it reaches a depth of 6" and disposed of in an approved spoil site)
- _____ Rock berm detail
- _____ Tree protection details
- _____ Inlet protection detail
- _____ Landscaping – Bermuda seeding or sod

TRENCH

- _____ Water / Wastewater trench detail (with marking tape)

PIPE - WATER

- _____ Water main is extended through lot for future tie-in
- _____ Existing utilities shown
- _____ Minimum easement shall be 20' unless 16" or larger
- _____ Location, size and depth of proposed lines shown - must be at least 3' to top of pipe, at least 8"
- _____ Verify proposed sizes and locations are compatible with City's Water Master Plan
- _____ Proposed lines shall be looped if possible, otherwise an automatic air release valve shall be installed at EOL
- _____ Stations called out for hydrants, tee's, valves, crosses, bends, etc.
- _____ Bold and label all proposed lines
- _____ Station equation given from street centerline with offset
- _____ Show and label all existing, proposed & temporary easements (min. esmt. width is 20' unless 16" or larger then must be 25' min.)
- _____ Verify if easement required for vault location
- _____ Preferred location of line is under the pavement, 7' from back of curb, of 5' from edge if no curb, measured from north or east curb or edge
- _____ If bores included, show stationing at each end and size of encasement
- _____ Legend shown and includes all symbols
- _____ Air release valve on 12" or larger lines at all high points (where crown of pipe is greater than 1.5 times the diameter above the flowline in the adjacent low points)
- _____ Profile shown for all lines 12" and larger
- _____ Top of existing and proposed ground shown
- _____ Size, slope, class and size of pipe labeled
- _____ All connections to and crossings of existing utilities shown
- _____ Elevations shown on all grade breaks
- _____ Plans sealed by TX PE
- _____ Stainless steel full-circle saddle

- _____ 1" water services must be Type K copper (New detail, Tap at the 2:00 position also city approved "U" joints)
- _____ Check location of valve boxes. Load bearing or non load bearing.
- _____ Sensus brand water meters are required
- _____ City maintained waterlines to be PVC C-900 DR-14 or D.I.P Class 200 (Installed with identification numbers and letters at the 12:00 position)
- _____ Call out all pipe restraints - required on water lines at all bends and intersections points in accordance with manufacturer recommendation (Ford Uniflange and EBBA Iron Megalugs)
- _____ Detail with flowable fill around water valve riser under asphalt ??
- _____ Valves located outside of pavement need valve location signs (detail included?)
- _____ Clean out detail (Under pavements and in field with markers)
- _____ Connection detail
- _____ Water meter piping assembly detail
- _____ **Water mains / transmission lines need sample port for bac-tee at least every 1000 ft.**
- _____ PRV and vault details
- _____ Carrier pipe and spacer details
- _____ Adders for checking Backflow Prevention device call outs
- _____ Valve box details correct with collars or not
- _____ AMI equipped and compatible meters

LIFT STATIONS

- _____ Lift station detail
- _____ Pump specification
- _____ Pump & guiderail installation details
- _____ Valve details
- _____ Electrical line drawings
- _____ Instrumentation & Control drawings
- _____ Site Plan
- _____ Erosion control plan
- _____ Odor control analysis
- _____ Power supply analysis
- _____ Wet & dry flow analysis
- _____ Follows COSM published specifications

PIPE - WASTEWATER

- _____ Clean out marked out on plans
- _____ Check location of cleanouts boxes. Load bearing or non load bearing.
- _____ City maintained wastewater pipe to be SDR 26, unless other type approved
- _____ Mandrel detail included
- _____ Attach the TECQ NOTE statement
- _____ Manhole ring and cover either bolt down V-2432 or non-bolt down V-1432 -detail included
- _____ Manhole grade rings (4") max of 4 total rings H.D.P.E.
- _____ Detail with flowable fill around manhole rings under asphalt ??
- _____ Clean out detail (Under pavements and in field with markers)
- _____ Connection detail
- _____ Minimum WW Service to a commercial building is 6"
- _____ Minimum WW Service to a residential structure is 4"
- _____ Stub-out from last manhole if future development planned
- _____ Wastewater main is extended through the lot for future tie-in
- _____ If tying into existing manhole, it must be vac. tested before and after the tie-in

- _____ If bores included, show stationing at each end and size of encasement
- _____ Profile shown for all lines 12" and larger
- _____ Carrier pipe and spacer details
- _____ Top of existing and proposed ground shown
- _____ Size, slope, class and size of pipe labeled
- _____ All connections to crossings of existing utilities shown
- _____ Elevations shown on all grade breaks
- _____ Plans sealed by TX PE

DRAINAGE

- _____ Concrete flume
- _____ Concrete valley gutter
- _____ Curb detail (Note with or without steel)
- _____ Curb drain detail
- _____ Curb expansion joint dowel detail
- _____ Curb inlet detail
- _____ Culvert riprap detail
- _____ French drain
- _____ Headwall and energy dissipators
- _____ Precast end treatment
- _____ Storm sewer manhole
- _____ Storm sewer manhole cover
- _____ Master Drainage Plan included

ROAD

- _____ Driveway detail with dowels (New Detail 9-2003)
- _____ Road Detail (showing 3' beyond back of curb)
- _____ Width (all roads are 3' behind back of curb) See detail
- _____ All crosswalks above 2% will need a variance letter from TDLR
- _____ Crown
- _____ Slope
- _____ Check placement of crown in road also catch or spill curbs and drainage area.

ALL SPILL CURBS TO HAVE A CALL OUT ON PLANS

- _____ Grading Master Plan

SIDEWALK

- _____ Concrete stamp
- _____ Sidewalk construction detail
- _____ Sidewalk Detail to show Redwood for expansion joint material.
- _____ ADA ramp details with pavers at all intersections or driveways of volume (also at "T" intersections)

MISCELLANEOUS

- _____ Handrail
- _____ Fencing - temporary, permanent, gates, H-bracing, etc. - compare to easement requirements (i.e., need temp fencing to turn cattle or just mark limits of construction)

BID ITEMS

- _____ Fencing quantity for each type of fencing - temp, permanent, silt, etc. - can use silt fence along limits of construction as temp fencing if not needed to turn cattle or for safety